

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) An information reading unit, comprising on a substrate:
an anode that supplies a hole;
a hole transporting layer laminated on the anode, which transports a hole supplied from the anode, by a configuration in which a low molecular organic material is dispersed in a polymer;
a cathode that supplies an electron;
an electron transporting layer laminated on the cathode, which transports an electron supplied from the cathode;
a light emitting layer held and laminated between the hole transporting layer and the electron transporting layer, which emits light by an operation of a hole injected from the hole transporting layer and an electron injected from the electron transporting layer; and
a light emitting section which irradiates a light on an object; and
a light receiving layer section which converts a reflected light in which the reflected light emitted from the light emitting layer is reflected by an from the object into an electric signal;
wherein at least a part of the light receiving layer section has a light transmitting property, and the light receiving layer section and the light emitting layer section are laminated.

2. (Currently Amended) The ~~[[an]]~~ information reading unit as claimed in claim 1, wherein the light receiving layer section and the light emitting layer section are provided on the same optical axis.

3. (Currently Amended) The information reading unit according to claim 1, wherein the light receiving layer section comprises an organic photoelectric converting unit having a photoelectric charge generating region formed by at least one type of electron donating organic material and electron accepting material between electrodes.

4. (Original) The information reading unit according to claim 3, wherein the photoelectric charge generating region at where the electron donating organic material and the electron accepting material are mixed.

5. (Original) The information reading unit according to claim 3, wherein the electron accepting material contains at least one of fullerenes and carbon nano tubes.

6. (Currently Amended) The information reading unit according to claim 1, wherein the light receiving layer section is formed by a photoconductive unit interposing at least one type of photoconductive material between electrodes.

7. (Currently Amended) The information reading unit according to claim 1, wherein the light emitting layer section and the light receiving layer section are laminated on the same substrate.

8. (Currently Amended) The information reading unit according to claim 1, wherein a light transmitting electric insulating material is provided between the light emitting layer section and the light receiving layer section which are laminated on the same substrate.

9. (Currently Amended) The information reading unit according to claim 1, wherein the light emitting layer section and the light receiving layer section are provided on both sides of a substrate.
10. (Original) The information reading unit according to claim 1, wherein a plurality of tight receiving layers sections is provided in a matrix.
11. (Currently Amended) The information reading unit according to claim 1, wherein a plurality of light receiving layers sections is provided in a matrix and takes a simple matrix structure having a data line and a scanning line.
12. (Currently Amended) The information reading unit according to claim 1, wherein a plurality of light receiving layers sections is provided in a matrix and takes an active matrix structure having a separate data transmission system.
13. (Currently Amended) The information reading unit according to claim 1, wherein a plurality of light emitting layers sections is provided in a matrix.
14. (Currently Amended) The information reading unit according to claim 1, wherein a plurality of tight emitting layers sections is provided in a matrix and takes a simple matrix structure having a data line and a scanning line.
15. (Currently Amended) The information reading unit according to claim 1, wherein a plurality of light emitting layers sections is provided in a matrix and takes an active matrix structure having a separate data transmission system.
16. (Currently Amended) The information reading unit according to claim 1, wherein the light emitting layer section for irradiating a light on an object is a planar light source.

17. (Currently Amended) The information reading unit according to claim 1, wherein the light emitting layer section for irradiating a light on an object is an organic electroluminescence unit.

18. (Currently Amended) The information reading unit according to claim 1, wherein a light emitted from the light emitting layer section has a directivity.

19. (Currently Amended) (Currently Amended) An information reading unit, comprising on a substrate:

an anode that supplies a hole;

a hole transporting layer laminated on the anode, which transports a hole supplied from the anode, by a configuration in which a low molecular organic material is dispersed in a polymer;

a cathode that supplies an electron;

an electron transporting layer laminated on the cathode, which transports an electron supplied from the cathode;

a light emitting layer held and laminated between the hole transporting layer and the electron transporting layer, which emits light by an operation of a hole injected from the hole transporting layer and an electron injected from the electron transporting layer; and

a light emitting section which irradiates a light on an object; and

a light receiving layer which converts section for converting a reflected light in which the light emitted from the light emitting layer is reflected by an ~~from~~ the object into an electric signal;

wherein at least a part of the light emitting layer section and the light receiving layer section has a light transmitting property; and the light receiving layer section and the light

emitting layer section are laminated, and a light emitted from the light emitting layer section is received by a plurality of light receiving layers sections.

20. (Currently Amended) The information reading unit according to claim 19, wherein at least one of the light receiving layers sections is shielded by a light shielding layer section, thereby preventing irradiation of a reflected light.

21. (Currently Amended) The information reading unit according to claim 19, wherein the light emitting layer section and the light receiving layers sections are provided on the same optical axis.

22. (Currently Amended) The information reading unit according to claim 19, wherein the light emitting layer section is interposed between the light receiving layers sections sections.

23. (Currently Amended) The information reading unit according to claim 1, wherein the light receiving layer section has a polarizing absorption property;

24. (Currently Amended) The information reading unit according to claim 1, wherein the light emitting layer section has a polarizing light emitting property and the light receiving layer section has a polarizing absorption property.

25. (Currently Amended) The information reading unit according to claim 1, wherein a polarizing plane for a light having the highest intensity which is incident from the light emitting layer section onto the light receiving layer section directly or through a polarizer is different from a polarizing plane for a light which can be absorbed by the light receiving layers sections most greatly.

26. (Currently Amended) (Currently Amended) An information reading unit, comprising on a substrate:

an anode that supplies a hole;

a hole transporting layer laminated on the anode, which transports a hole supplied from the anode, by a configuration in which a low molecular organic material is dispersed in a polymer;

a cathode that supplies an electron;

an electron transporting layer laminated on the cathode, which transports an electron supplied from the cathode;

a light emitting layer held and laminated between the hole transporting layer and the electron transporting layer, which emits light by an operation of a hole injected from the hole transporting layer and an electron injected from the electron transporting layer; and

a light emitting section which irradiates a light on an object; and

a light receiving layer section which converts a reflected light in which the reflected light emitted from the light emitting layer is reflected by an from the object into an electric signal;

wherein at least a part of the light emitting layer section has a light transmitting property, and the light receiving layer section and the light emitting layer section are laminated.

27. (Currently Amended) An information reading unit, comprising on a substrate:

an anode that supplies a hole;

a hole transporting layer laminated on the anode, which transports a hole supplied from the anode, by a configuration in which a low molecular organic material is dispersed in a polymer;

a cathode that supplies an electron;

an electron transporting layer laminated on the cathode, which transports an electron supplied from the cathode;

a light emitting layer held and laminated between the hole transporting layer and the electron transporting layer, which emits light by an operation of a hole injected from the hole transporting layer and an electron injected from the electron transporting layer; and

a light emitting section which irradiates a light on an object; and

a light receiving layer section which converts a reflected light in which the reflected light emitted from the light emitting layer is reflected by an ~~from the~~ object into an electric signal;

wherein at least one of the light receiving layer section and the light emitting layer section has a light transmitting property, and the light receiving layer section and the light emitting layer section are laminated.

28. (Currently Amended) An information reading device wherein electric information obtained by the light receiving layer section is converted into a digital signal by using the information reading unit according to claim 1.